

16. (original): A controlling apparatus wherein said apparatus has a speed controlling apparatus which feeds back the speed estimated on the basis of the speed estimating apparatus according to claim 15, to obtain a difference with respect to a speed command value, and implements a speed control so that the difference becomes zero.

17. (original): A controlling apparatus wherein said apparatus has a position controlling apparatus which feeds back a rotor position estimated value which is obtained on the basis of the magnetic pole position estimated by the apparatus for estimating a magnetic pole position according to claim 1, to obtain a difference with respect to a rotor position command value, and implements a position control so that the difference becomes zero.

18. (original): A controlling apparatus wherein said apparatus has a torque controlling apparatus for a motor comprising the apparatus for estimating a magnetic pole position according to claim 1, ^{or} ~~and~~ the current controlling apparatus according to claim 14. ←

19. (original): A controlling apparatus wherein said apparatus has a speed controlling apparatus for a motor comprising the apparatus for estimating a magnetic pole position according to claim 1, ^{or} ~~the~~ current controlling apparatus according to claim 14, ^{or} ~~the~~ speed estimating apparatus according to claim 15, ^{or} ~~and~~ the speed controlling apparatus according to claim 16. ←

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20. (original): A controlling apparatus wherein said apparatus has a position controlling apparatus for a motor comprising the apparatus for estimating a magnetic pole position according to claim 1, ^{or} the current controlling apparatus according to claim 14, ^{or} the speed estimating apparatus according to claim 15, ^{or} the speed controlling apparatus according to claim 16, ^{or} and the position controlling apparatus according to claim 17. ←